

instead of the values given above from the direct measures of *Jupiter* and the satellite.

Further photographs are being taken at every favourable opportunity.

Royal Observatory, Greenwich:
1906 September 21.

Measures of Southern Binary Stars. By John Tebbutt.

The following are the results of measures of six of the most interesting binary stars of the southern hemisphere. The measures were made with the Grubb 8-inch equatorial either in sunlight or in twilight; those of position-angle with the Cooke & Sons, and those of distance with the Grubb filar micrometer. The following method was employed for each star. The star was measured on three groups of evenings, the same micrometer being employed for the first and third groups, and the other micrometer for the middle group. The means of these three sets of measures duly weighted were then taken, and the means for the first and third sets reduced to the epoch corresponding to the mean of the middle group. It may be stated that ten measures at least in each coordinate were taken of each star on each night of the groups.

Star.	Epoch.	Position-angle.	Distance	No. of Evenings for		Hour Angle.
				Position-angle	Distance.	
<i>p</i> Eridani	... 1906.161	219°8	8"90	4	4	W.
γ Centauri	... 1905.471	352.9	1.52	8	6	E. & W.
β Muscæ	... 1905.726	345.0	1.33	6	3	W.
α Centauri	... 1905.476	212.1	21.16	7	12	W. & E.
β 416	... 1905.618	279.3	2.38	4	4	E.
γ Coronæ Aust.	... 1905.650	123.5	1.69	6	4	E.

Observatory, Peninsula, Windsor, N.S. Wales:
1906 July 17.

Ephemeris of Flora near the time of Opposition in 1907.
By A. M. W. Downing, D.Sc., F.R.S.

This ephemeris is computed from Brünnow's "Tafeln der Flora," in combination with the corrected continuation of certain of the tables published in *Monthly Notices*, vol. lxiv. No. 6.

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Berlin Midnight.		Apparent				Log. Distance from Earth.	
1907.		R.A.			Dec.		
		h	m	s			
Jan.	4	7	47	3.26	+ 20°	56' 47".6	0.03832
	5		45	56.64	21	3 36.8	.03814
	6		44	49.22		10 25.9	.03807
	7		43	41.11		17 14.6	.03811
	8		42	32.42		24 2.4	.03825
	9		41	23.26		30 48.9	.03850
	10		40	13.75		37 33.8	.03885
	11		39	4.02		44 16.5	.03931
	12		37	54.17		50 56.7	.03987
	13		36	44.33	21	57 34.0	.04054
	14		35	34.63	22	4 7.9	.04131
	15		34	25.19		10 37.9	.04218
	16		33	16.14		17 3.6	.04315
	17		32	7.58		23 24.5	.04423
	18		30	59.63		29 40.2	.04541
	19		29	52.41		35 50.4	.04669
	20		28	46.02		41 54.9	.04807
	21		27	40.57		47 53.4	.04954
	22		26	36.15		53 45.6	.05110
	23		25	32.86	22	59 31.3	.05276
	24		24	30.81	23	5 10.4	.05451
Jan.	25	7	23	30.09	+ 23	10 42.6	0.05635

Magnitude at Opposition, January 13 = 8.6.